

## FRP Bridge Drain Pipe Case History

# Centennial Bridge – Leavenworth, KS Fiberglass Hatch Door Covers



### Service

Spanning the Missouri River just north of Kansas City, the city of Leavenworth, KS finished construction on the Centennial Bridge in 1955 to commemorate the rich history of the area as 100 years earlier it had been the first incorporated city in the state. Just over a half century later, corrosion and traffic loading had pushed the bridge into a sorry state with major rehab work becoming a must. In addition to the planned replacement of structural members and roadway surface improvements, bridge owners called for a fiberglass drainage system to be installed in order to extend the service life even further. Along with the pipe, deck inspection hatch door covers were also specified in fiberglass and incorporated into the rehab efforts by design engineers.

### Features & Benefits

With the inclusion of a bridge drain pipe system, the ecology of the Missouri River will be better preserved for the years to come by minimizing the oil and chemical run off entering the area's watershed. The fiberglass hatch door covers will further improve the overall corrosion resistance of the bridge as this new design will never rust or rot while in service.

### Pipe System

- 500' of 10" Bridge Drain Pipe
- 76 Custom Fittings and Transition Couplings
- 56 FRP Deck Inspection Hatch Covers